On-Line Training/ Maintenance Standard Laboratory Module (SLM™)

General Overview of the On-Line Training/Maintenance SLM

The Training/Maintenance Module (T/MM) is a multimedia tool that will provide interactive instruction on the use of the Contaminant Analysis Automation (CAA) SLMs.

Environmental Protection Agency (EPA) Method

Not applicable.

Standard Analysis Method (SAM)

Supports all SAMs.

Advantages

The T/MM provides an on-line training and maintenance reference for SLMs. By progressing through the links of the T/MM, the end user learns the design, function, and control of the SLM in an interactive manner. This multimedia training tool provides visual and audio information pathways that are not possible with traditional paper text manuals. The maintenance portion of the module is a higher-level maintenance tool, integrated into the maintenance activities of the on-line SLM controller, providing an interactive interface with the operator.

General Description of the On-Line Training/Maintenance SLM

The CAA Program has chosen the World Wide Web and the HyperText Transfer Protocol (HTTP) as the medium for distributing multimedia information to end users. Within documents written in the HyperText Markup Language (HTML), a trainer may embed graphics as well as links to other resources. These resources may be audio files, still pictures, or moving pictures.

Figure 1 shows the CAA T/MM sonication SLM "home page," in which the user is shown text and embedded graphics describing the contents of the T/MM Web space. Each of the six square buttons may be activated by single-clicking with a mouse pointer. The middle button on the top row is labeled "Sensitive Map." Clicking that button causes the Web browser to load the sensitive map of the Sonication SLM (Figure 2). From this sensitive map, the user can click on an outlined component to retrieve a more detailed description of that component.

Figure 1. The CAA T/MM home page.

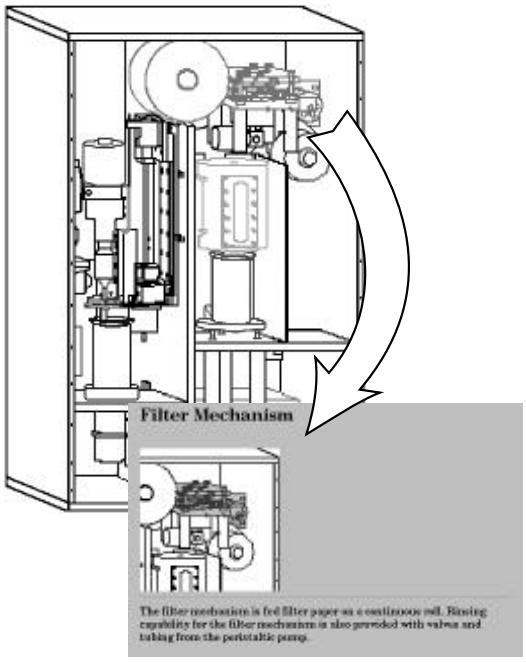

Figure 2.
The sensitive map of the Sonication SLM.

Clicking on one of the other five square buttons of the Sonication T/MM will bring up other information relevant to using the SLM, including error messages, human-computer interface windows with explanations of operations features, and EPA Method 3550 for Sonication Extraction.

Status

The prototype T/MM is being developed for the Sonication SLM. The Web address for the T/MM is **http://sun-robot.nuceng.ufl.edu/caa**

Industrial Partner

SciBus Analytical, Inc.

Developers

The CAA T/MM is being developed by the University of Florida in conjunction with Los Alamos National Laboratory, Oak Ridge National Laboratory, and SciBus Analytical, Inc.

SciBus Analytical
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